SONY

3-756-924-21 (1)

Radio Cassette Player

WM-FX52

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number is located at the rear and the serial number is located in the inside of the cassette holder. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. WM-FX52 Serial No._____

Sony Corporation © 1993 Printed in Japan

WALKMAN

WALKMAN is a trademark of Sony Corporation.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

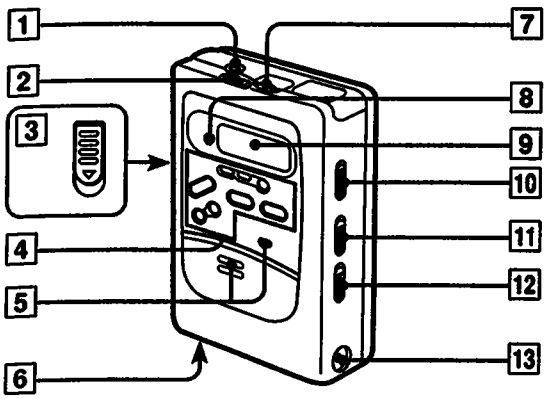
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Features

- The built-in synthesizer tuner can store up to 7 stations each on the FM and AM bands in memory.
- The LCD display will let you know the current operational mode.
- The hold switch prevents any accidental operation of the unit.
- The AVLS (Automatic Volume Limiter System) function keeps the volume at a moderate level without degrading the sound quality.

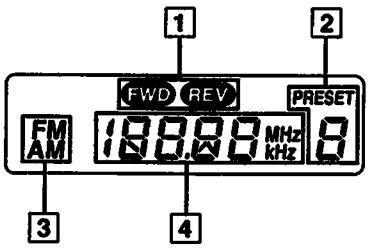
Parts Identification

Main Unit



1 **PHONES (headphones) jack**
2 **FM SENS (FM sensitivity) selector**
3 **OPEN switch**
4 **Tape/Radio operation buttons**
5 **Hold switch and HOLD indicator**
6 **Battery compartment**
7 **VOLUME control**
8 **BATT (battery) indicator**
9 **Display window**
10 **AVLS (Automatic Volume Limiter System) selector**
11 **TAPE selector**
12 **MEGA BASS selector**
13 **DC IN 3V (external power input) jack**

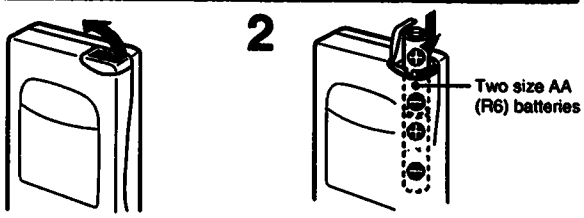
Display Window



1 Tape playback side (forward/reverse) indication
2 Preset number/area mode indication
3 Radio band indication
4 Tape operational mode/frequency range indication

Power Sources

Using with Dry Batteries



Notes

- Insert two size AA (R6) batteries by matching the + and – on the batteries to the + and – in the battery compartment.
- Do not charge the batteries.
- It can be dangerous if the positive and negative terminals of dry batteries are accidentally contacted by a metallic object as this can generate heat: do not carry them in your pocket etc. with coins or other metallic objects.
- When the unit is not to be used for a long period of time, remove the batteries to avoid any damage caused by the battery leakage and the subsequent corrosion.
- Do not use different types of batteries together.

When the batteries become weak

When the batteries are weak, the BATT indicator will glow faintly and the playback sound will become distorted or unstable. In this case, replace both batteries with new ones.

Keeping the stored preset memories from being canceled

When replacing the batteries, replace both batteries within one minute.

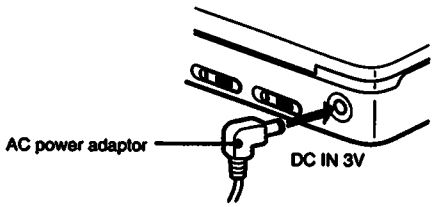
Battery life

	Tape playback	Radio reception
Sony alkaline AM3 (N)	Approx. 10.5 hours	Approx. 25 hours
Sony SUM-3 (NS)	Approx. 3 hours	Approx. 8 hours

For maximum performance we recommend the use of alkaline batteries.

Using on the External Power Sources

Connect an optional AC power adaptor AC-E30L to the DC IN 3V jack.



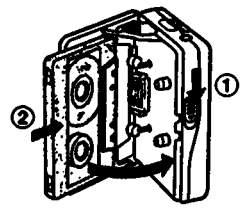
Note on the AC power adaptor

Use only the AC-E30L AC power adaptor (not supplied). Do not use any other AC power adaptor.

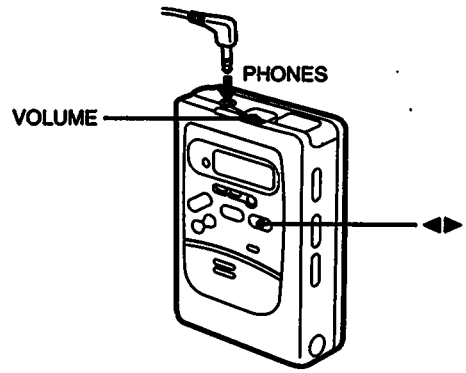
Polarity of the plug

Tape Playback

Inserting a cassette

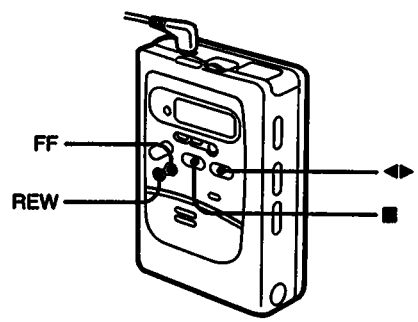


Playing Back a Tape



1 **Connect the supplied headphones firmly to the PHONES jack.**
2 **Press the ◀▶ button to play back the tape and adjust the volume with the VOLUME control.**

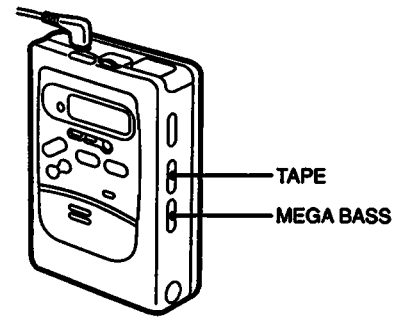
Basic Tape Operation



To start playback	Press the ◀▶ button.
To stop playback	Press the ■ button.
To listen to the other side of the cassette during playback	Press the ◀▶ button.
To fast-forward	Press the FF button.*1
To rewind	Press the REW button.*2

*1 When you press the FF button during playback, the unit starts playback of the other side automatically when the tape comes to the end. (Skip reverse function)
*2 When you press the REW button during playback, the unit starts playback automatically when the tape is fully wound. (Auto play function)

Other Operations



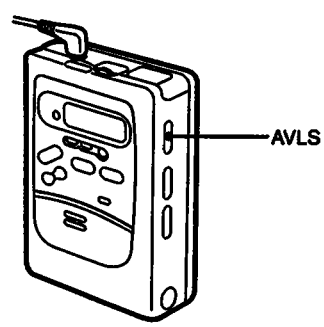
Set the selectors to the appropriate positions to suit the type or recorded sound on your tape.

TAPE selector
NORM: For normal (TYPE I) tapes
METAL/CrO2: For CrO2 (TYPE II) tapes or metal (TYPE IV) tapes

MEGA BASS selector
NORM: To listen to the sound without the boosted bass effect
MID: To listen to the sound with the bass sound boosted to the moderate level
MAX: To listen to the sound with the bass sound boosted to the maximum level

Note
If the AVLS function is activated, the bass effect will be reduced.

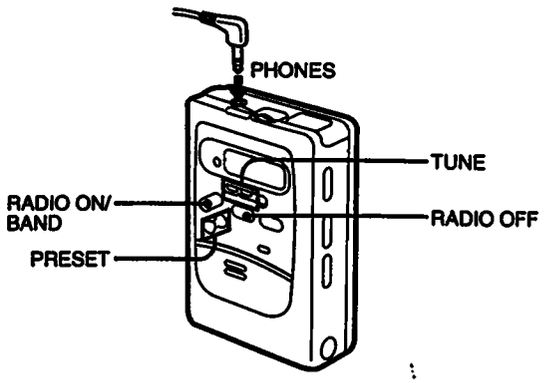
AVLS Function



The AVLS selector allows you to limit the maximum volume of your WALKMAN personal stereo without degrading the sound quality.
- When the AVLS selector is set to either position 1 or 2 (around 95 dB or 85 dB respectively), the volume will be kept at a moderate level without the degradation of the sound quality, even if you attempt to turn the volume up higher.
- The reproduced sound may be distorted or unstable due to the type of music being played back. If this happens, turn down the volume.
- When the AVLS selector is turned off, you will be able to enjoy the full volume capability of your WALKMAN personal stereo.

Radio Reception

Listening to the Radio



1 Connect the supplied headphones firmly to the PHONES jack.

2 Press the RADIO ON/BAND button to turn on the radio and select the desired band (FM or AM).

3 Tune in to a desired station using one of the following ways.

— Scan tuning
Press either of the TUNE buttons for more than a second. When you reached the desired station, press the same button again.

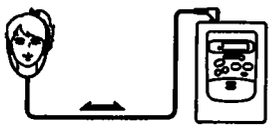
— Manual tuning
Press either of the TUNE buttons repeatedly until the desired station is received.

— Preset tuning
Press either of the PRESET buttons repeatedly until a desired preset number is shown on the display window. To use this function, make sure that the stations are memorized in advance. See "Memory Preset Tuning".

To turn off the radio
Press the RADIO OFF button.

Last channel memory
The currently tuned in station will be memorized when the radio is turned off. The same station will be automatically tuned in the next time the radio is turned on.

To improve receiving condition
FM: Since the headphones cord serves as an FM antenna, extend it for better reception.



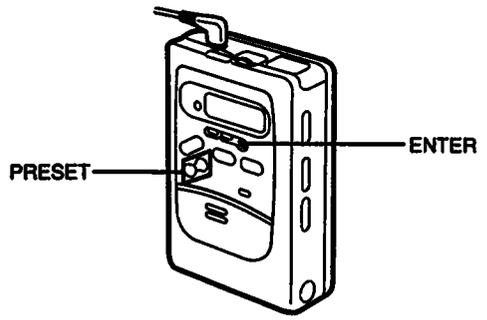
AM: Since the reception is affected by the direction of the unit, rotate the unit horizontally for optimum reception.

To improve FM sensitivity
When the FM stereo program is too weak and noisy, set the FM SENS selector to the LOCAL position. Normally set it to the DX position.

Note
Be sure to remove the cassette if it has a metallic cassette shell or metallic labels. Such cassettes may cause interference or difficulty in tuning.

Memory Preset Tuning

Up to 7 stations on each band (FM and AM) can be stored in the memory in order of your choice.



(Example: To store FM 101.9 MHz on preset number 3.)

Proceed with steps 2 to 4 quickly as the operation for each step will be canceled if you do not go to the next step before the indication stops flashing. The indication flashes only for about four seconds.

1 Tune in a desired station.

2 Press the ENTER button.
"PRESET" and preset number indications will start flashing.

3 While indications are flashing, select a desired preset number with either of the PRESET buttons.

4 Press the ENTER button.

Repeat these procedures for FM and AM.

To tune in to a stored station
Press either of the PRESET buttons repeatedly until the desired preset number is shown on the display window.

To erase the memory of the stored station

1 Tune in to the preset station you wish to erase.

2 Press the ENTER button.
The preset number flashes on the display window.

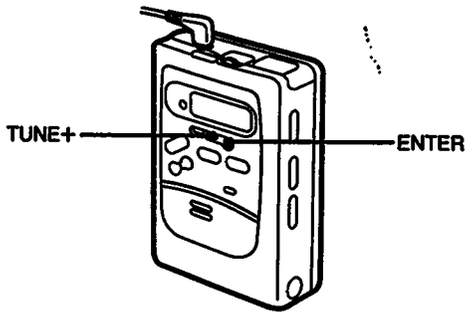
3 Press either of the PRESET buttons until the "–" indication appears on the display window.

4 Press the ENTER button.

Using the Unit Outside the Country Where It was Purchased

The radio frequency allocations may be varied in different areas.

Area (Indication)	FM (MHz)	AM (kHz)
European and other countries (E)	87.5 –108.0 (0.05 MHz step)	531 – 1,602 (9 kHz step)
Japan (J)	76.0 – 90.0 (0.1 MHz step)	531 – 1,710 (9 kHz step)
U.S.A. and Canada (U)	87.5 – 108.0 (0.1 MHz step)	530 – 1,710 (10 kHz step)



Select the frequency range of the area where you are going to use this unit.

(Example: To change the area indication from "U" to "J".)

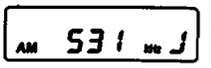
Proceed with the following steps quickly as the operation for each step will be canceled if you do not go to the next step before the indication stops flashing. The indication flashes only for about four seconds.

1 Press the ENTER button during the radio reception.
The "PRESET" and the preset number indications start flashing.

2 Keep the TUNE + button pressed for more than three seconds.
The area indication starts flashing instead of the "PRESET" and preset number indications.

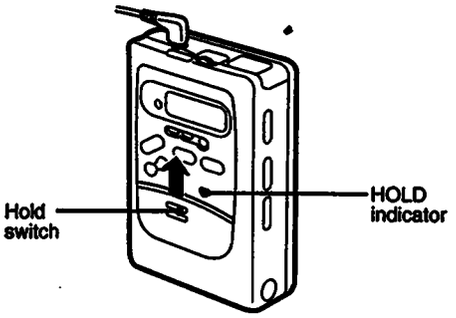
3 Press the TUNE + button again to select the desired area.
Each pressing of the button changes the indication cyclically as follows:
U → E → J → U

4 Press the ENTER button.
The area indication stops flashing and the operation completes.



Note
The stations stored in the previous area mode will be erased.

Useful Function



Hold Function

Hold switch and HOLD indicator
Slide the hold switch as illustrated to prevent accidentally pressing of the operational buttons on the unit. While the Hold function is activated, HOLD indicator turns to white.

Precautions

Notes on headphones

Road safety
Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in many areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage
Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

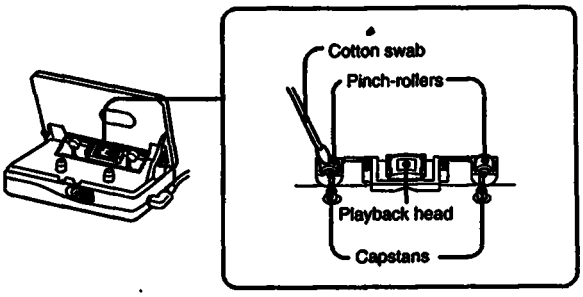
Caring for others
Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Handling the unit
- Do not drop the unit or give a shock to the unit. Doing so may cause a malfunction of the unit.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, or in a car with its windows closed.
- If the unit has not been used for a long period of time, set it in the playback mode and warm it up for a few minutes before inserting a cassette.

Note on cassettes longer than 90 minutes
The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Cleaning



Cleaning the head

Clean your tape head after every 10 hours of use to enjoy optimum stereo sound. Moisten a cotton swab or soft cloth with alcohol and wipe the head, the pinch rollers and the capstans.

Cleaning the unit's exterior

Clean the unit with a soft cloth moistened in water. Do not use alcohol, benzine or thinner.

Specifications

Radio section

Frequency range	FM: 87.5 – 108.0 MHz (0.1 MHz step) AM: 530 – 1,710 kHz (10 kHz step)
Antenna	FM: Headphones cord antenna AM: Built-in ferrite bar antenna

Tape player section and general

Frequency response	40 – 15,000 Hz
Output	Headphones load impedance 8 – 300 Ω
Power output	5 mW + 5 mW 16 Ω at DC operation
Power requirements	3 V DC Two size AA (R6) batteries DC IN 3V jack accepts: Sony AC-E30L AC power adaptor (not supplied) for use on 120 V AC 60 Hz Sony DCC-E130L car battery cord (not supplied) for use with 12 V car battery.
Dimensions	Approx. 78 × 114.3 × 33.5 mm ($3^1/_8 \times 4^1/_2 \times 1^3/_8$ in.) (w/h/d) incl. projecting parts and controls
Mass	Approx. 230 g (8.2 oz.) incl. batteries, not incl. other accessories
Accessories supplied	Stereo headphones (1) Carrying case (1)
Optional accessories	AC power adaptor AC-E30L Car battery cord DCC-E130L

Your dealer may not handle some of the optional accessories listed above. Please ask the dealer for detailed information.

Design and specifications subject to change without notice.